

# INTERNATIONAL SEARCH REPORT

10/531677  
 Re: PCT/PTO 15 APR 2005  
 PCT/EP 03/11379

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 A61K31/663 A61P9/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)  
 EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS, CHEM ABS Data, PASCAL

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YLITALO: "Bisphosphonates and atherosclerosis" GENERAL PHARMACOLOGY, vol. 35, 2002, pages 287-296, XP002268656	1-8, 16
Y	the whole document	9-15, 17, 18
X	PRICE ET AL.: "bisphosphonates alendronate and ibandronate inhibit artery calcification at doses comparable to those that inhibit bone resorption" ARTERIOSCLEROSIS, THROMBOSIS AND VASCULAR BIOLOGY, vol. 21, no. 5, 2001, XP002268657	1-8, 16
Y	the whole document	9-15, 17, 18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the International search

9 February 2004

Date of mailing of the International search report

26/02/2004

Name and mailing address of the ISA

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/11379

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KOSHIYAMA HIROYUKI ET AL: "Decrease in carotid intima-media thickness after 1-year therapy with etidronate for osteopenia associated with type 2 diabetes" JOURNAL OF CLINICAL ENDOCRINOLOGY AND METABOLISM, vol. 85, no. 8, August 2000 (2000-08), XP002268658 ISSN: 0021-972X	1-8, 16
Y	the whole document	9-15, 17, 18
X	YLITALO RITVA ET AL: "Suppression of immunoreactive macrophages in atheromatous lesions of rabbits by clodronate" PHARMACOLOGY AND TOXICOLOGY, vol. 90, no. 3, March 2002 (2002-03), pages 139-143, XP002268659 ISSN: 0901-9928	1-8, 16
Y	the whole document	9-15, 17, 18
X	WO 00 03677 A (HADASIT MED RES SERVICE ;YISSUM RES DEV CO (IL); DANEBERG HAIM (IL) 27 January 2000 (2000-01-27)	7-10, 15, 16
Y	page 6, line 13 - line 18	11-14, 17, 18
X	JAGDEV S P ET AL: "THE BISPHOSPHONATE, ZOLEDRONIC ACID, INDUCES APOPTOSIS OF BREAST CANCER CELLS: EVIDENCE FOR SYNERGY WITH PACLITAXEL" BRITISH JOURNAL OF CANCER, LONDON, GB, vol. 8, no. 84, 2001, pages 1126-1134, XP008001603 ISSN: 0007-0920	7, 16-18
	the whole document	
X	WO 01 49295 A (UNIV CALIFORNIA) 12 July 2001 (2001-07-12) page 15, line 1 - line 17 page 16, line 11	1-12, 15-18
X	LEVY R J ET AL: "Polymeric drug delivery systems for treatment of cardiovascular calcification, arrhythmias and restenosis" JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 36, no. 1, 1 September 1995 (1995-09-01), pages 137-147, XP004037475 ISSN: 0168-3659 abstract page 139, paragraph 3.1 -page 140	1-11, 13-15
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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/11379

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BURNETT ET AL.: "cardiovascular disease and osteoporosis: is there a link between lipids and bone"	1-8,16
Y	ANNALS OF CLINICAL BIOCHEMISTRY, vol. 39, April 2002 (2002-04), pages 203-210, XP009024827 the whole document	9-15,17, 18

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP 03/11379

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 1,5-11, 15-18 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

remaining patent family members

International Application No

PCT/03/11379

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0003677	A	27-01-2000	AU 758882 B2	03-04-2003
			AU 4646299 A	07-02-2000
			BR 9912066 A	10-04-2001
			CA 2337175 A1	27-01-2000
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			EE 200100025 A	17-06-2002
			EP 1094820 A2	02-05-2001
			WO 0003677 A2	27-01-2000
			JP 2002520345 T	09-07-2002
			NO 20010224 A	09-03-2001
			PL 345782 A1	02-01-2002
			SK 472001 A3	11-09-2001
			US 2002187184 A1	12-12-2002
			US 2003013686 A1	16-01-2003
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			CA 2396393 A1	12-07-2001
			EP 1267888 A1	02-01-2003
			JP 2003519183 T	17-06-2003
			WO 0149295 A1	12-07-2001
			US 2003027211 A1	06-02-2003